DEEP RABADIYA

📍 Jamnagar, Gujarat | 📞 9510108275 | ✉ deepp6603@gmail.com | in Linkedin | Github | 🌐 Portfolio

ABOUT

I am a passionate Geospatial Analyst with strong expertise in Remote Sensing, GIS, and Data Science. I specialize in satellite image analysis for agricultural applications and have hands-on experience with tools like Google Earth Engine, Python, and GIS software (QGIS, ArcGIS, SNAP, ERDAS). My work focuses on harnessing geospatial technologies and machine learning to support precision farming and crop monitoring. I'm always eager to collaborate on innovative projects that combine agriculture and geospatial technology.

EDUCATION

Dhirubhai Ambani Institute   Gandhinagar, GJ
M.Sc. Agriculture Analytics (Geospatial Data Science)   *July 2023 – May 2025*

Junagadh Agricultural University   Junagadh, GJ
B.Sc.(Hons) Agriculture   *July 2019 – June 2023*

EXPERIENCE

Remote Sensing and GIS Manager   Jan 2025 - Present
SBI General Insurance   *New Delhi*

- Worked as Remote Sensing and GIS Manager, handling crop classification, acreage estimation, and yield forecasting using semi-physical, CHF, and machine learning models. Used Google Earth Engine (GEE) for data processing and downloading, Python for weather data extraction, and GIS software such as Erdas Imagine, ArcGIS, QGIS, and SNAP.

Remote Sensing and GIS Analyst   May 2024 – July 2024
Semantic Technologies and Agritech Services Pvt Ltd   *Pune, Maharashtra*

- At Semantic Technologies and Agritech Services Pvt Ltd, I leveraged **SAR** and **optical data** to develop **machine learning** models for crop health and area estimation, enhancing agricultural productivity. This experience honed my skills in remote sensing, GIS and agritech solutions.

Machine Learning Intern   March 2024 – April 2024
Coding Samurai   *Remote*

Machine Learning Intern   March 2024 – March 2024
Mentorness   *Remote*

TECHNICAL SKILLS

Languages: Python, R, SQL
Tools and Technologies: ArcGIS, QGIS, ERDAS IMAGINE, SNAP, Envi, Google Earth Engine, PostgreSQL, Power BI, Looker studio, Advance Excel, Ms-Office, DBMS
Libraries: Pandas, NumPy, Matplotlib, Rasterio, Gdal, Geopandas, Sklearn, Keras, TensorFlow, OpenCV

PROJECTS

PMFBY (Pradhan Mantri Fasal Bima Yojana) | *SBIGI*   Jan 2025 – Present
- Python, ML, ArcGIS, Qgis, Erdas, Snap, Google Earth Pro, GEE

Satellite Based Crop Mapping and Area Estimation | *Semantic Tech*   May – July 2024
- Python, ML, ArcGIS, Qgis, Erdas, Snap, Google Earth Pro, GEE

Land Cover Change Detection (Deforestation) | *Dr. Ranendu Ghosh*   Oct – Nov 2023
- Python, ML, ArcGIS, Qgis

Soil erosion esti. from satellite using advanced statistical learning | *Mr. Justin George*   March – April 2024
- GEE, Python, ArcGIS, Qgis

Crop Recommendation System | *Mr. Kapil Oberai*   Feb 2024
- PostgresML, Various ML Algorithms, VS Code, Streamlit

Soil Moisture Prediction | *Dr. Kamal Panday*   March 2024
- Machine Learning

Estimation of Drought using Satellite Images | *Dr. Mukesh Tiwari*   Sep 2024
- GEE, Various GIS Softwares

Soil Properties Estimation Using Hyperspectral Image | *Mr. Paresh Rathod*   Aug 2024
- ML, DL, GIS Softwares

Web GIS (Web Mapping Of Ramsar Sites of India) | *Nascent Infotech*   July 2024
- GeoServer, HTML, Javascript, Postgres

CERTIFICATIONS

Microwave Data Processing and Applications | *Space Application Centre, ISRO*

Spatial Analysis with ArcGIS Pro | *esri India*

Crop Yield Modelling using Advance Geospatial Technologies | *Amnex Infotechnologies*

Advance Excel, Power BI and Tableau | *The Pioneer Tech*

Developing Web-based Geographical Information Systems | *Nascent Infotech*

Application of Geoinformatics in Ecological Studies | *IIRS, ISRO*

Python for Computer Vision with OpenCV and Deep Learning | *Udemy*